Name: Maura Krett

ID: 103947905

CSCI 3104 Problem Set 7 Profs. Grochow & Layer Spring 2019, CU-Boulder

(b) (5 pts) An edge list representation. Assume vertices have arbitrary labels.

If Dumbledore uses an edge list representation,

We use an array of two vertex numbers to represent

an edge. The list of pairs marcanes an edge of

the graph and it there's an edge, it is represented

as a 1, if not, represented as 0.

Thorder to get me in- and out-degree, we access all edges of me graph.

time complexity depends on the number of edges in the graph so O(E).